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## ABSTRACT

**THERMOSTATIC CONTROLLER AND CIRCUIT TESTER** is a new trouble shooting device, designed to improve the air conditioning technicians fault diagnostic capabilities. The device comes equipped with two independent circuits and its own built in flashlight. The first circuit is the controller, which is outfitted with test leads with alligator clips controlled by four push on – push off switches. When attached to the thermostat wires or the air handlers connector block, it allows the air conditioning system to be manually overridden, so as to determine and locate defects in the system. The next circuit, with detachable test leads and probes, performs line voltage and continuity tests.